IN THE CLAIMS

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1. (Currently Amended) A metalworking fluid concentrate, comprising;

(a) heavy alkyl benzene having C22 - C26 carbon atom, a waste heavy fraction from detergent class linear alkyl benzene manufacturing, in the concentration range of 40 to 85.68 weight percent of the concentrate, (b) at least one sulfonate/oleate class emulsifier preferably sodium oleate, triethanolamine oleate, heavy alkyl benzene sulfonate, dodecyl toluene sodium sulfonate or mixture thereof in the range of 10 to 37.98 weight percent of the concentrate, (c) synergistic combination of additive components having at least one triglyceride vegetable oil type lubricity booster preferably karanja oil, neem oil, riee-bran oil, mahua-oil or mixtures thereof in the eoneentration range of 2-10 weight percent of the concentrate, at least one phenol/amine type antioxidant preferably from 2,6-ditetiary butyl phenol, 2,6-ditertiary-butyl-4-methyl phenol, 2,6ditertiary p-eresol, Diphenylamine, Tertiary butyl phenol amino tetrazole, 2,6-dioctyl phenylene diamine or mixture thereof in the concentration range of 0.005-0.05 weight percent of the eoneentrate, at least one phenol/amine elass fungieide eomponent preferably o-cresol, phenol, mcresol, eresylic aeid, Benzyl thri-ethyl ammonium chloride, Tetradecyl-pyridinium-bromide or mixture thereof in the concentration range of 0.005-0.05 weight percent of the concentrate, at least one organic sulfide/phosphosulfide type extreme pressure additive component preferably selected from dibenzyl disulphide, sulfurized vegetable oil, phosphosulfidurized decyl oleate molybdate, phosphothio pentadecyl phenol molybdate, Zine dialkyl-dithio-phosphate or mixture thereof in the concentration range of 0.005-0.05 weight percent of the concentrate, and a at least one triazole/sulfonate type antirust component preferably 1H-benzotriasole, ditertiary butylated 1H-Benzotriazole, calcium petroleum sulfonate, calcium heavy alkylate sulfonate or mixture thereof in the concentration range of 0.005-0.05 weight percent of the concentrate, (d) at least one alcoholic co-surfactant component preferably isopropanol, n-butanol, iso-butanol, iso-amyl

alcohol, 2 ethyl hexanol, di ethylene glycol, tri ethylene glycol or mixture thereof in the range of 1-10 weight percent of the concentrate, (e) at least one sulfonate/sulfate eoupling agent preferably ligno sulfonate, petroleum sulfonate, sodium dodecyl benzene sulfonate, sodium lauryl sulfate or mixture thereof in the range of 0.5 to 1.0 weight percent of the concentrate, (f) alkali earth metal salt component preferably sodium carbonate, sodium hydrogen earbonate, calcium carbonate, calcium oxide or mixture thereof in the range of 0.5-1.0 weight percent of the eoncentrate, that when converted into emulsion by stirring it in 60-to-98 20-80 weight percent water, the emulsion is then useful as a general purpose soluble eutting oil that acts as a coolant/engineering aid in metalworking, has less toxicity than mineral based oil and adds value to a waste product, i.e. heavy alkyl benzene.

- 2. (Previously Presented) A composition as claimed in claim 1, wherein the residual eomponent of Alkyl Benzene is an oil component having heavy alkyl benzene of C22 C26 carbon number, a heavy fraction by-product separated from detergent class alkyl benzene during manufacture.
- 3. (Original) A composition as elaimed in claim 1, wherein the emulsifier is selected from the group consisting of heavy alkylate sodium sulfonates, sodium earboxylate, sodium oleate, Triethalonoamine oleate, Diethalonoamine oleate or Dodecyl Toluene sodium sulfonate or mixtures thereof.
- 4. (Currently Amended) A composition as claimed in claim 1, wherein the lubricity booster is a vegetable oil selected from the group consisting of karanja oil, neem oil, rice-bran oil, easter oil or mixtures thereof.

5. (Original) A composition as claimed in claim 1, wherein the antioxidant component is selected from the group consisiting of an alkyl phenol, aromatic amine, substituted alkyl phenol selected from 2,6-ditertiary butyl phenol, 2,6-ditertiary p-cresol, Diphenylamine, Tertiary butyl phenol amino tetrazole and 2,6-dioctyl phenylene diamine.

- 6. (Original) A composition as claimed in claim 1, wherein the fungicide component is a phenol or phenolic acid selected from the group consisting of o-cresol, phenol, m-cresol and cresylic acid.
- 7. (Original) A composition as claimed in claim 1, wherein the extreme pressure additive component is an organic sulfide or phosphosulfurized metal salt selected from the group consisting of dibenzyl disulphide, sulfurized vegetable oil, phosphosulfurized decyl oleate molybdate and phosphothio pentadecyl phenol molybdate.
- 8. (Original) A composition as claimed in claim 1, wherein the anti-rust component is a triazole or sulfonate selected from the group consisting of 1H-benzotriazole, ditertiary butylated 1H-Benzotriazole, calcium petroleum sulfonate and calcium heavy alkylate sulfonate.
- 9. (Previously Presented) A composition as claimed in claim 1, wherein the cosurfactant component is a alcohol selected from the group consisting of isopropanol, n-butanol, iso-butanol, iso-amyl alcohol, 2 ethyl hexanol, mono & poly glycol Viz., diethylene glycol and tri ethylene glycol.
- 10. (Original) A composition as claimed in claim 1, wherein the coupling agent component is a sulfonates (molecular weight less than 350) selected from the group consisting of ligno sulfonate, petroleum sulfonate, sodium dodecyl benzene sulfonate and sodium lauryl sulfate.

- 1 11. (Previously Presented) A composition as claimed in claim 1, wherein the alkali
- 2 component is an alkali and alkaline earth metal salt selected from the group consisting of sodium
- 3 carbonate, sodium hydrogen carbonate, calcium carbonate and calcium oxide.
- 1 12. (Previously Presented) A composition as claimed in claim 1, wherein the composition
- 2 is suitable for use as metal working fluid and general emulsion as admixture with water in
- 3 concentration range from 60 to 90 weight percent.
- 1 13. (Original) A process for preparing metalworking fluid as claimed in claim 1, said
- 2 process comprises the steps of;
- a. removing of insoluble matter from the heavy alkylate followed by addition of emulsifier
- 4 and vegetable oil to obtain the mixture;
- 5 b. homozenising the resultant mixture at a temperature in the range of 30 to 100°C for about
- 6 one hour with stirring;
- 7 c. adding the antioxidant, fungicide, extreme pressure additives, anti trust component,
- 8 cosurfactant, coupling agent, alkali, followed by addition of water to make up the quantity about
- 9 1kg, and
- d. homogenizing the mixture for about 30 minutes, the pH of the solution was adjusted to 7-
- 9 by addition of sodium carbonate and cooling the resultant metal working fluid at room
- 12 temperature.
- 1 14. (Previously Presented) A process as claimed in claim 13, wherein the residual
- 2 component of Alkyl Benzene is a oil component having heavy alkyl benzenc of C22 C26
- 3 carbon number, a heavy fraction, by-product, separated from detergent class alkyl benzene
- 4 during manufacture.

- 15. (Previously Presented) A process as claimed in claim 13, wherein the concentration 1 of heavy alkyl benzene component is in the range of 40 to 85.68 weight percent of the 2 3 metalworking fluid.
- 16. (Original) A process as claimed in claim 13, wherein the emulsifier is selected from 1 the group consisting of heavy alkylate sodium sulfonates, sodium carboxylate, sodium oleate, 2 Triethalonoamine oleate, Diethalonoamine oleate or Dodecyl Toluene sodium sulfonate or 3 4 mixtures thereof.
- 17. (Previously Presented) A process as claimed in claim 13, wherein the concentration 1 of emulsifier component is in the range of 10 to 37.98 weight percent of the metalworking fluid. 2
- 18. (Original) A process as claimed in claim 13, wherein the vegetable oil component for lubricity booster is selected from the group consisting of karanja oil, neem oil, rice-bran oil, castor oil or mixtures thereof. 3

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- 1 19. (Original) A process as claimed in claim 13, wherein the concentration of vegetable oil component for lubricity boost is in the range of 2 to 10 weight percent of the metalworking 2 fluid. 3
 - 20. (Original) A process as claimed in claim 13, wherein the antioxidant component is selected from the group consisiting of an alkyl phenol, aromatic amine, substituted alkyl phenol selected from 2,6-ditertiary butyl phenol, 2,6-ditertiary p-cresol, Diphenylamine, Tertiary butyl phenol amino tetrazole and 2,6-dioctyl phenylene diamine.
- 21. (Previously Presented) A process as claimed in claim 13, wherein the 1 concentration of antioxidant component is in the range of 0.005 to 0.05 weight percent. 2

- 22. (Original) A process as claimed in claim 13, wherein the fungicide component is a phenol or phenolic acid selected from the group consisting of o-cresol, phenol, m-cresol and cresylic acid.
- 23. (Previously Presented) A process as claimed in claim 13, wherein the concentration of fungicide component is in the range of 0.005 to 0.05 weight percent.
- 24. (Original) A process as claimed in claim 13, wherein the extreme pressure additive component is an organic sulfide or phosphosulfurized metal salt selected from the group consisting of dibenzyl disulphide, sulfurized vegetable oil, phosphosulfurized decyl oleate molybdate and phosphothio pentadecyl phenol molybdate.
- 25. (Previously Presented) A process as claimed in claim 13, wherein the concentration of extreme pressure additive component is in the range of 0.005 to 0.05 weight percent.
- 26. (Original) A process as claimed in claim 13, wherein the anti-rust component is a triazole or sulfonate selected from the group consisting of 1H-benzotriazole, ditertiary butylated 1H-Benzotriazole, calcium petroleum sulfonate and calcium heavy alkylate sulfonate.
 - 27. (Previously Presented) A process as claimed in claim 13, wherein the concentration of ant-rust component is in the range of 0.005 to 0.05 weight percent.

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28. (Original) A process as claimed in claim 13, wherein the co-surfactant component is a alcohol selected from the group consisting of isopropanol, n-butanol, iso-butanol, iso-amyl alcohol, 2 ethyl hexanol, mono & poly glycol such as di ethylene glycol and tri ethylene glycol.

29. (Original) A process as claimed in claim 13, wherein the concentration of cosurfactant component is in the range of 1 to 10 weight percent of the metalworking fluid.

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- 30. (Previously Presented) A process as claimed in claim 13, wherein the coupling agent component is a sulfonate (molecular weight less than 350) selected from the group consisting of calcium ligno sulfonate, sodium petroleum sulfonate, sodium dodecyl benzene sulfonate and sodium lauryl sulfate.
- 31. (Previously Presented) A process as claimed in claim 13, wherein the concentration of coupling agent component is in the range of 0.5 to 1.0 weight percent of the metalworking fluid.
 - 32. (Previously Presented) A process as claimed in claim 13, wherein the alkali component is an alkali and alkaline earth metal salt selected from the group consisting of sodium carbonate, sodium hydrogen carbonate, calcium carbonate, calcium oxide.
 - 33. (Previously Presented) A process as claimed in claim 13, wherein the concentration of alkali component is in the range of 0.5 to 1.0 weight percent of the metalworking fluid.
 - 34. (Previously Presented) A metalworking fluid from heavy alkylate, comprising;

 (a) residual fraction having C22 C26 carbon atom of detergent class Alkyl Benzene in the concentration range of 50 to 90 weight percent of the metal working fluid, (b) an emulsifier selected from the group comprising heavy alkylate sodium sulfonates, sodium carboxylate, sodium oleate, Triethalonoamine oleate, Diethalonoamine oleate or Dodecyl Toluene sodium sulfonate or mixtures thereof, in the range of 10 to 37.98 w% of the metalworking fluid, (c) at least one lubricity booster component in the concentration range of 2-10 percent of metal

working fluid, (d) an antioxidant component is in the concentration range of 50-500 ppm, (e) a fungicide component in the concentration range of 50-500 ppm, (f) an extreme pressure additive component in the concentration range of 50-500 ppm (g) an antirust component in the concentration range of 50-500 ppm, (h) a co-surfactant component in the range of 1-10 weight percent of metal working fluid, (i) a coupling agent in the range of 0.5 to 10 weight percent of metal working fluid, (j) alkali component in the range of 8-10 weight percent of metal working

fluid.